



57637.1182.ST25.txt
SEQUENCE LISTING

<110> Bracco International BV

<120> Multivalent Constructs for Therapeutic and Diagnostic Applications

<130> 57637-1182

<140> 10/379,287

<141> 2003-03-03

<160> 41

<170> PatentIn version 3.2

<210> 1

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 1

Ala Gly Trp Ile Glu Cys Tyr His Pro Asp Gly Ile Cys Tyr His Phe
1 5 10 15

Gly Thr

<210> 2

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 2

Ala Gly Trp Leu Glu Cys Tyr Ala Glu Phe Gly His Cys Tyr Asn Phe
1 5 10 15

Gly Thr

<210> 3
 <211> 18
 <212> PRT
 <213> Artificial

<220>
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 3

Ala	Gly	Asp	Ser	Trp	Cys	Ser	Thr	Glu	Tyr	Thr	Tyr	Cys	Glu	Met	Ile
1				5					10					15	

Gly Thr

<210> 4
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<220>
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<400> 4

Ala	Gly	Pro	Lys	Trp	Cys	Glu	Glu	Asp	Trp	Tyr	Tyr	Cys	Met	Ile	Thr
1				5					10					15	

Gly Thr

<210> 5
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 <213> Artificial

<220>
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 5

Gly Asp Ser Arg Val Cys Trp Glu Asp Ser Trp Gly Gly Glu Val Cys
1 5 10 15

Phe Arg Tyr Asp Pro
20

<210> 6

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 6

Gly Asp Trp Trp Glu Cys Lys Arg Glu Glu Tyr Arg Asn Thr Thr Trp
1 5 10 15

Cys Ala Trp Ala Asp Pro
20

<210> 7

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 7

Gly Asp Pro Asp Thr Cys Thr Met Trp Gly Asp Ser Gly Arg Trp Tyr
1 5 10 15

Cys Phe Pro Ala Asp Pro
20

<210> 8

<211> 24

<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 8

Ala Gln Glu Pro Glu Gly Tyr Ala Tyr Trp Glu Val Ile Thr Leu Tyr
1 5 10 15

His Glu Glu Asp Gly Asp Gly Gly
20

<210> 9
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 9

Ala Gln Ala Phe Pro Arg Phe Gly Gly Asp Asp Tyr Trp Ile Gln Gln
1 5 10 15

Tyr Leu Arg Tyr Thr Asp Gly Gly
20

<210> 10
<211> 24
<212> PRT
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<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 10

Ala Gln Gly Asp Tyr Val Tyr Trp Glu Ile Ile Glu Leu Thr Gly Ala
1 5 10 15

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Thr Asp His Thr Pro Pro Gly Gly
20

<210> 11
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 11

Ala Gly Pro Thr Trp Cys Glu Asp Asp Trp Tyr Tyr Cys Trp Leu Phe
1 5 10 15

Gly Thr

<210> 12
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 12

Ala Gln Asp Trp Tyr Tyr Asp Glu Ile Leu Ser Met Ala Asp Gln Leu
1 5 10 15

Arg His Ala Phe Leu Ser Gly Gly
20

<210> 13
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 13

Gly Ser Asp His His Cys Tyr Leu His Asn Gly Gln Trp Ile Cys Tyr
1 5 10 15

Pro Phe Ala Pro Gly Gly Gly Lys
20

<210> 14

<211> 26

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 14

Gly Asp Tyr Pro Trp Cys His Glu Leu Ser Asp Ser Val Thr Arg Phe
1 5 10 15

Cys Val Pro Trp Asp Pro Gly Gly Gly Lys
20 25

<210> 15

<211> 26

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 15

Gly Asp Asp His Met Cys Arg Ser Pro Asp Tyr Gln Asp His Val Phe
1 5 10 15

Cys Met Tyr Trp Asp Pro Gly Gly Gly Lys
20 25

<210> 16

<211> 26

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<212> PRT
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<220>
<223> Description of Artificial Sequence: KDR-binding peptides
<400> 16

Gly Asp Pro Pro Leu Cys Tyr Phe Val Gly Thr Gln Glu Trp His His
1 5 10 15

Cys Asn Pro Phe Asp Pro Gly Gly Gly Lys
20 25

<210> 17
<211> 26
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides
<400> 17

Gly Asp Gly Ser Trp Cys Glu Met Arg Gln Asp Val Gly Lys Trp Asn
1 5 10 15

Cys Phe Ser Asp Asp Pro Gly Gly Gly Lys
20 25

<210> 18
<211> 26
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides
<400> 18

Ala Gln Arg Gly Asp Tyr Gln Glu Gln Tyr Trp His Gln Gln Leu Val
1 5 10 15

Glu Gln Leu Lys Leu Leu Gly Gly Gly Lys
20 25

<210> 19
<211> 26
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides
<400> 19

Gly Asp Asn Trp Glu Cys Gly Trp Ser Asn Met Phe Gln Lys Glu Phe
1 5 10 15

Cys Ala Arg Pro Asp Pro Gly Gly Gly Lys
20 25

<210> 20
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

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<222> (7)..(7)

<220>
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<222> (7)..(7)
<223> (4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)-3-methylbutyl

<400> 20

Ala Gly Pro Gly Pro Cys Lys Gly Tyr Met Pro His Gln Cys Trp Tyr
1 5 10 15

Met Gly Thr Gly Gly Gly Lys
20

<210> 21
 <211> 23
 <212> PRT
 <213> Artificial

<220>
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 21

Ala Gly Tyr Gly Pro Cys Ala Glu Met Ser Pro Trp Leu Cys Trp Tyr
 1 5 10 15

Pro Gly Thr Gly Gly Gly Lys
 20

<210> 22
 <211> 20
 <212> PRT
 <213> Artificial

<220>
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 22

Ala Gln Asp Trp Tyr Tyr Glu Ile Leu Gly Arg Gly Gly Arg Gly Gly
 1 5 10 15

Arg Gly Gly Lys
 20

<210> 23
 <211> 22
 <212> PRT
 <213> Artificial

<220>
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 23

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Ala Pro Gly Thr Trp Cys Asp Tyr Asp Trp Glu Tyr Cys Trp Leu Gly
1 5 10 15

Thr Phe Gly Gly Gly Lys
20

<210> 24
<211> 25
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 24

Gly Val Asp Phe Arg Cys Glu Trp Ser Asp Trp Gly Glu Val Gly Cys
1 5 10 15

Arg Ser Pro Asp Tyr Gly Gly Gly Lys
20 25

<210> 25
<211> 24
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 25

Gly Ser Pro Glu Met Cys Met Met Phe Pro Phe Leu Tyr Pro Cys Asn
1 5 10 15

His His Ala Pro Gly Gly Gly Lys
20

<210> 26
<211> 24
<212> PRT
<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 26

Gly Ser Phe Phe Pro Cys Trp Arg Ile Asp Arg Phe Gly Tyr Cys His
1 5 10 15

Ala Asn Ala Pro Gly Gly Gly Lys
20

<210> 27

<211> 26

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 27

Ala Gln Glu Trp Glu Arg Glu Tyr Phe Val Asp Gly Phe Trp Gly Ser
1 5 10 15

Trp Phe Gly Ile Pro His Gly Gly Gly Lys
20 25

<210> 28

<211> 26

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 28

Gly Asp Tyr Ser Glu Cys Phe Phe Glu Pro Asp Ser Phe Glu Val Lys
1 5 10 15

Cys Tyr Asp Arg Asp Pro Gly Gly Gly Lys
20 25

<210> 29
 <211> 22
 <212> PRT
 <213> Artificial

<220>
 <223> Description of Artificial Sequence: KDR-binding peptides
 <400> 29

Ala Gly Pro Thr Trp Cys Glu Asp Asp Trp Tyr Tyr Cys Trp Leu Phe
 1 5 10 15

Gly Thr Gly Gly Gly Lys
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<210> 30
 <211> 21
 <212> PRT
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<220>
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 <400> 30

Glu Arg Val Thr Thr Cys Trp Pro Gly Glu Tyr Gly Gly Val Glu Cys
 1 5 10 15

Tyr Ser Val Ala Tyr
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<210> 31
 <211> 23
 <212> PRT
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<220>
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 <400> 31

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Ala Gly Pro Gly Pro Cys Lys Gly Tyr Met Pro His Gln Cys Trp Tyr
1 5 10 15

Met Gly Thr Gly Gly Gly Lys
20

<210> 32
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 32

Ala Gly Met Pro Trp Cys Val Glu Lys Asp His Trp Asp Cys Trp Trp
1 5 10 15

Trp Gly Thr Gly Gly Gly Lys
20

<210> 33
<211> 23
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 33

Ala Gly Tyr Gly Pro Cys Lys Asn Met Pro Pro Trp Met Cys Trp His
1 5 10 15

Glu Gly Thr Gly Gly Gly Lys
20

<210> 34
<211> 8
<212> PRT
<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 34

Asp Trp Tyr Tyr Gly Gly Gly Lys
1 5

<210> 35

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 35

Ala Gln Asp Trp Tyr Tyr Asp Glu Ile Leu
1 5 10

<210> 36

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 36

Ala Gln Asp Trp Tyr Tyr Asp Glu Ile Leu Gly Arg Gly Arg Gly Gly
1 5 10 15

Arg Gly Gly

<210> 37

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 37

Ala Gly Pro Thr Trp Glu Glu Asp Asp Trp Tyr Tyr Lys Trp Leu Phe
1 5 10 15

Gly Thr Gly Gly Gly Lys
20

<210> 38

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 38

Ala Gly Pro Thr Trp Lys Glu Asp Asp Trp Tyr Tyr Glu Trp Leu Phe
1 5 10 15

Gly Thr Gly Gly Gly Lys
20

<210> 39

<211> 21

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<220>

<221> MOD_RES

<222> (5)..(5)

<223> 2,3-diaminopropanoic acid

<400> 39

Ala Gly Pro Thr Trp Glu Asp Asp Trp Tyr Tyr Asp Trp Leu Phe Gly
1 5 10 15

Thr Gly Gly Gly Lys
20

<210> 40
<211> 21
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<220>
<221> MOD_RES
<222> (12)..(12)
<223> 2,3-diaminopropanoic acid

<400> 40

Ala	Gly	Pro	Thr	Trp	Asp	Glu	Asp	Asp	Trp	Tyr	Tyr	Trp	Leu	Phe	Gly
1				5					10					15	

Thr Gly Gly Gly Lys
20

<210> 41
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 41

Ala	Gly	Pro	Thr	Trp	Asp	Glu	Asp	Asp	Trp	Tyr	Tyr	Lys	Trp	Leu	Phe
1				5					10					15	

Gly Thr Gly Gly Gly Lys
20